

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

JCO4 PCT/PTO 11 OCT 2005

ATTORNEY'S DOCKET NUMBER

UMBC-0012

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

10/552164

INTERNATIONAL APPLICATION NO.
PCT/US2004/006276

INTERNATIONAL FILING DATE
March 1, 2004

PRIORITY DATE CLAIMED
May 9, 2003

TITLE OF INVENTION

PROTEINS, SENSORS, AND METHODS OF CHARACTERIZING ANALYTES USING THE SAME

APPLICANT(S) FOR DO/EO/US

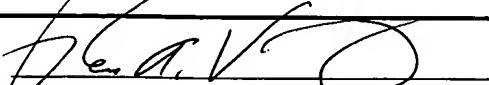
Leah TOLOSA; Govind RAO and Xudong GE

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. The US has been elected (Article 31).
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. is attached hereto (required only if not communicated by the International Bureau).
 - b. has been communicated by the International Bureau.
 - c. is not required, as the application was filed in the United States Receiving Office (RO/US)
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. is attached hereto.
 - b. has been previously submitted under 35 U.S.C. 154(d)(4).
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
 - a. are attached hereto (required only if not communicated by the International Bureau).
 - b. have been communicated by the International Bureau.
 - c. have not been made; however, the time limit for making such amendments has NOT expired.
 - d. have not been made and will not be made.
8. An English language translation of the amendments to the claims under Article 19 (35 U.S.C. 371(c)(3)).
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.
12. An Assignment Document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. A Preliminary Amendment.
14. An Application Data Sheet under 37 CFR 1.76.
15. A substitute Specification.
16. A Power of Attorney and/or change of address letter.
17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.
18. A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. Other items or information: PCT Request

U.S. APPLICATION (If known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION PCT/US2004/006276	ATTORNEY'S DOCKET NO. UMBC-0012																	
<p>The following fees have been submitted:</p> <p>21. <input checked="" type="checkbox"/> Basic national fee \$300.00</p> <p>22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0.00</p> <p>All other situations \$200.00</p> <p>23. <input checked="" type="checkbox"/> Search fee If the written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33 (1)-(4) \$ 0.00 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100.00 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400.00 All other situations \$500.00</p>				Calculations \$300.00																
<p>TOTAL OF 21, 22, and 23 =</p> <p><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.</p> <table border="1"> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>RATE</td> </tr> <tr> <td>- 100 =</td> <td>/50 =</td> <td></td> <td>x \$250.00</td> </tr> </table> <p>Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).</p>				Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	- 100 =	/50 =		x \$250.00	\$600.00								
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE																	
- 100 =	/50 =		x \$250.00																	
<table border="1"> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> </tr> <tr> <td>Total Claims</td> <td>- 43 =</td> <td>23</td> <td>x \$50.00</td> </tr> <tr> <td>Independent Claims</td> <td>- 3 =</td> <td>0</td> <td>x \$200.00</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td></td> <td>+ \$360.00</td> </tr> </table> <p>TOTAL OF ABOVE CALCULATIONS =</p>				CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total Claims	- 43 =	23	x \$50.00	Independent Claims	- 3 =	0	x \$200.00	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$1,750.00
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																	
Total Claims	- 43 =	23	x \$50.00																	
Independent Claims	- 3 =	0	x \$200.00																	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00																	
<p><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.</p> <p>SUBTOTAL =</p>				\$875.00																
<p>Processing fee of \$130.00 for furnishing the English language translation later than 30 months from the earliest priority date (37 CFR 1.492(f))</p> <p>TOTAL NATIONAL FEE =</p>				\$875.00																
<p>Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property</p> <p>TOTAL FEES ENCLOSED =</p>				\$40.00																
				Amount to be refunded: \$																
				charged: \$																
<p>a. <input checked="" type="checkbox"/> Checks in the amount of \$ 875.00 (check #15960) and \$40.00 (check #15961) to cover the above fees are enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.</p> <p>c. <input checked="" type="checkbox"/> A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 16-0607. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>																				
<p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b) must be filed and granted to restore the application to pending status.</p>																				
<p>SEND ALL CORRESPONDENCE TO: CUSTOMER NO. 34610</p> <p> FLESHNER & KIM, LLP P.O. Box 221200 Chantilly, Virginia 22151-1200 USA 703-766-3701</p>																				
<p>SIGNATURE <u>Rene A. Vazquez</u></p> <p>NAME <u>38,647</u></p> <p>REGISTRATION NUMBER</p>																				